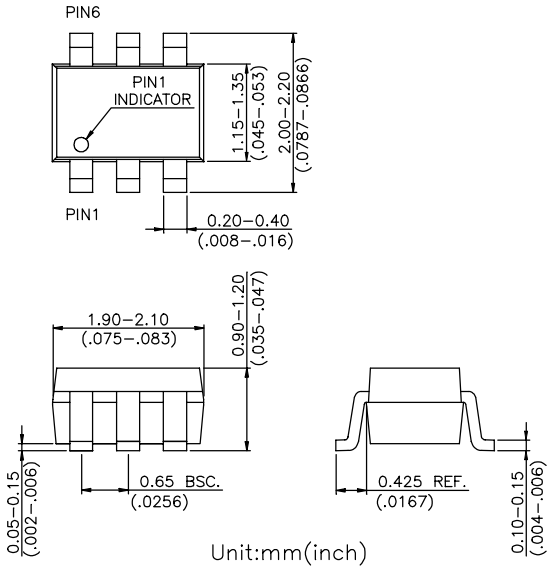
查询HWS306供应商

Features

- **Low Insertion Loss:** 0.35dB @ 2GHz
- **Isolation:** 26dB @ 2GHz
- **P1dB:** +25dBm Typical @ +3V
- **IP3:** 43dBm
- **Low DC Power Consumption**
- **Low Cost SOT-363 Plastic Package**

SOT-363



Description

The HWS306 is a GaAs MMIC SPDT switch in a low cost SOT-363 plastic package. The HWS306 features low insertion loss with very low DC power consumption. This general purpose switch can be used in analog and digital wireless communication systems.

Electrical Specifications at 25°C with 0, +3V Control Voltages

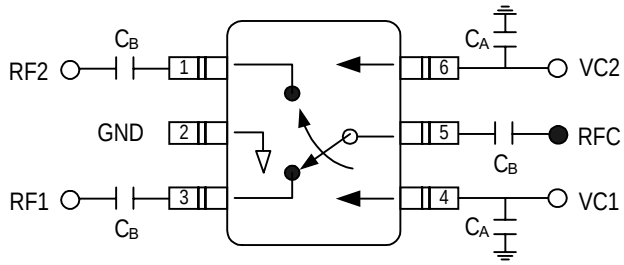
Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Insertion Loss	DC-2.0GHz DC-2.5GHz		0.35 0.40	0.55 0.60	dB dB
Isolation	DC-1.0GHz DC-2.0GHz DC-2.5GHz	25 22 21	28 25 23		dB dB dB
VSWR	DC-2.5GHz		1.20:1		
Input Power for One dB Compression	0.5-2.5GHz 0/+3V 0/+5V		 25 30		dBm
3rd Order Intermodulation Intercept Point (IP3)	0.5-2.5GHz (for two-tone input power up to +5dBm) 0/+3V 0/+5V		 43 48		dBm
Switching Time			50		ns
Control Current			5	50	μA

Note: All measurements made in a 50Ω system with 0/+3V control voltages, unless otherwise specified.

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power 0.05GHz 0.5-2.5GHz	 +24dBm +30dBm
Control Voltage	+8V
Operating Temperatur	-40°C to +85°C
Storage Temperature	-65°C to +150°C

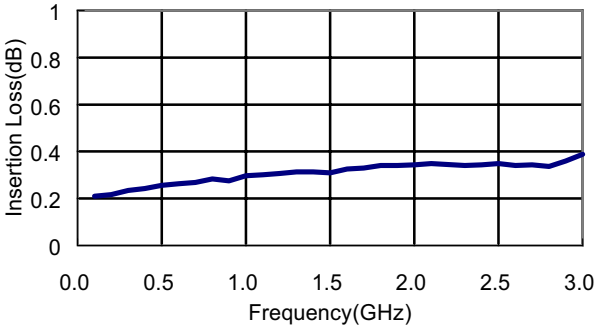
Pin Out



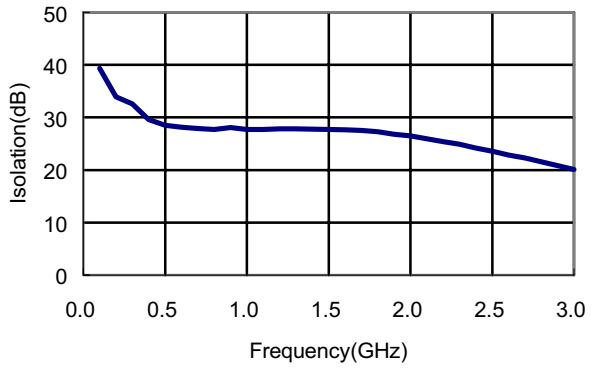
DC blocking capacitors C_B are required on all RF ports.
C_B= C_A= 51pF for operating frequency > 500MHz.

Typical Performance @ +25°C

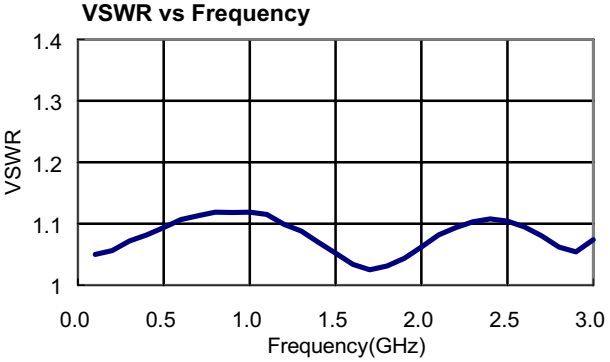
Insertion Loss vs Frequency



Isolation vs Frequency



VSWR vs Frequency



Truth Table

VC1	VC2	RFC-RF1	RFC-RF2
V_{High}	0	Insertion Loss	Isolation
0	V_{High}	Isolation	Insertion Loss

V_{High} = +3V to +5V